



## Source Model Bugs: xspec abundan

### Bugs

1. *XSpec commands which aren't recorded in the save file.*

The `xspec abundan` and `xspec xsect` commands are not recorded in the save file. If a fit is saved and then restored, the fit and statistics appear to be completely different.

2. *xspec abundan always returns a status of 0.*

Executing `xspec abundan` by means of `sherpa_eval` returns 0 even when given an incorrect argument. For example, the following commands work (i.e. return 0 on success and -1 on failure):

```
sherpa> sherpa_eval( "xspec abundan angr" )
  Abundances set to Anders & Grevesse
0
sherpa> sherpa_eval( "xspec abundan" )
-1
```

However the following do not recognize a failure:

```
sherpa> sherpa_eval( "xspec abundan file foo" )
Failed to open requested file with abundances
0
sherpa> sherpa_eval( "xspec abundan X" )
'X' does not match.
  Choose from the following ABUND options (currently 'file'):
  angr feld aneb grsa wilm lodd file
0
```

